

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/APTO				Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	Not Yet Assigned - 10/82
				Filing Date	April 16, 2004
				First Named Inventor	Howard E. Rhodes
				Art Unit	2813
				Examiner Name	T. Nguyen
Sheet	1	of	3	Attorney Docket Number	M4065.0105-C

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
TM	AA	*4,374,700	02/1983	Scott et al.	
	AB	*5,055,900	10/1991	Fossum et al.	
	AC	*5,173,756	12/1992	Wong et al.	
	AD	*5,319,604	06/1994	Imondi et al.	
	AE	*5,461,425	10/1995	Fowler et al.	
	AF	*5,471,515	11/1995	Fossum et al.	
	AG	*5,541,402	07/1996	Ackland et al.	
	AH	*5,576,783	11/1996	Ackland et al.	
	AI	*5,612,799	03/1997	Yamazaki et al.	
	AJ	*5,614,744	03/1997	Merrill	
	AK	*5,625,210	04/1997	Lee et al.	
	AL	*5,705,846	01/1998	Merrill	
	AM	*5,708,263	01/1998	Wong	
	AN	*5,721,425	02/1998	Merrill	
	AO	*5,731,822	03/1998	Sugiyama et al.	
	AP	*5,757,045	05/1998	Tsai et al.	
	AQ	*6,118,142	09/2000	Chen et al.	
	AR	*5,239,193	08/1993	Berton	
	AS	*4,972,244	11/1990	Buffet et al.	
	AT	*6,051,447	04/2000	Lee et al.	
	AU	*6,306,676	10/2001	Stevens et al.	
TM	AV	*6,350,127	02/2002	Chiang et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>4</sup> (if known)				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	T. NUNYEV	Date Considered	3/11/05
-----------------------	-----------	--------------------	---------

Substitute for form 1449A/PTO		Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	Not Yet Assigned 10/825372
		Filing Date	April 16, 2004
		First Named Inventor	Howard E. Rhodes
		Art Unit	2813
		Examiner Name	T. Nguyen
Sheet	2	of	3
		Attorney Docket Number	M4065.0105-C

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume- issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
TN	CA	*Dickinson, A., et al., <u>A 256x256 CMOS Active Pixel Image Sensor with Motion Detection</u> , 1995 IEEE International Solid-State Circuits Conference, pps. 226-227.	
	CB	*Dickinson, A., et al., <u>Standard CMOS Active Pixel Image Sensors for Multimedia Applications</u> , Proceedings of Sixteenth Conference on Advanced Research in VLSI, March 27-29, 1995, pps. 214-224.	
	CC	*Eid, E.S., et al., <u>A 256 x 256 CMOS Active Pixel Image Sensor</u> , Proc. SPIE Vol. 2415, April 1995, pps. 265-275.	
	CD	*Fossum, E., <u>CMOS Image Sensors: Electronic Camera On A Chip</u> , 1995 IEEE, pps. 17-25.	
	CE	*Fossum, E., et al., <u>IEDM A 37x28mm<sup>2</sup> 600k-Pixel CMOS APS Dental X-Ray Camera-on-a-Chip with Self-Triggered Readout</u> , 1998 IEEE International Solid-State Circuits Conference, pps. 172-173.	
	CF	*Fossum, E., <u>Low Power Camera-on-a-Chip Using CMOS Active Pixel Sensor Technology</u> , 1995 IEEE, pps. 74-77.	
	CG	*Fossum, E., <u>Architectures for focal plane image processing</u> , Optical Engineering, Vol. 28, No 8, August 1989, pps. 865-871.	
	CH	*Janesick, J., et al., <u>New advancements in charge-coupled device technology - sub-electron noise and 4096x4096 pixel CCDs</u> , Proc. SPIE Vol. 1242, 1990, pps. 223-237.	
	CI	*Kemeny, S.E., et al., <u>Update on focal-plane image processing research</u> , Proc. SPIE Vol. 1447, 1991, pps. 243-250.	
	CJ	*Mendis, S., et al., <u>CMOS Active Pixel Image Sensor</u> , IEEE Transactions on Electron Devices, Vol. 41, No. 3, March 1994, pps. 452-453.	
	CK	*Mendis, S.K., et al., <u>A 128 x 128 CMOS Active Pixel Image Sensor for Highly Integrated Imaging Systems</u> , 1993 IEEE, pps. 583-586.	
	CL	*Mendis, S.K., et al., <u>CMOS Active Pixel Image Sensors for Highly Integrated Imaging Systems</u> , IEEE Journal of Solid-State Circuits, Vol. 32, No. 2, February 1997, pps. 187-197.	
	CM	*Mendis, S.K., et al., <u>Design of a Low-Light-Level Image Sensor with On-Chip Sigma-Delta Analog-to-Digital Conversion</u> , Proc. SPIE Vol. 1900, July 1993, pps. 31-39.	
	CN	*Mendis, S.K., et al., <u>Low-Light-Level Image Sensor with On-Chip Signal Processing</u> , Proc. SPIE Vol. 1952, November 1993, pps. 23-33.	
	CO	*Mendis, S.K., et al., <u>Progress in CMOS Active Pixel Image Sensors</u> , Proc. SPIE Vol. 2172, May 1994, pps. 19-29.	
	CP	*Nakamura, J., et al., <u>CMOS Active Pixel Image Sensor with Simple Floating Gate Pixels</u> , IEEE Transactions on Electron Devices, Vol. 42, No. 9, September 1995, pps. 1693-1694.	
TN	CQ	*Nixon, R.H., et al., <u>256 x 256 CMOS Active Pixel Sensor Camera-on-a-Chip</u> , IEEE Journal of Solid-State Circuits, Vol. 31, No. 12, December 1996, pps. 2048-2050.	
Examiner Signature	T. NGUYEN		Date Considered
			3/11/05

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	Not Yet Assigned 10/825 372	
			Filing Date	April 16, 2004	
			First Named Inventor	Howard E. Rhodes	
			Art Unit	2813	
			Examiner Name	T. Nguyen	
Sheet	3	of	3	Attorney Docket Number	M4065.0105-C

TN	CR	*Nixon, R.H., et al., <u>256x256 CMOS Active Pixel Sensor Camera-on-a-Chip</u> , 1996 IEEE International Solid-State Circuits Conference, pps. 178-179.	
	CS	*Panicacci, R., et al., <u>Programmable multiresolution CMOS active pixel sensor</u> , Proc. SPIE Vol. 2654, March 1996, pps. 72-79.	
	CT	*Panicacci, R.A., et al., <u>128Mb/s Multipoint CMOS Binary Active-Pixel Image Sensor</u> , 1996 IEEE International Solid-State Circuit Conference, pps. 100-101.	
	CU	*Yadid-Pecht, O., et al., <u>CMOS Active Pixel Sensor Star Tracker with Regional Electronic Shutter</u> , IEEE Journal of Solid-State Circuits, Vol. 32, No. 2, February 1997, pps. 285-288.	
	CV	*Yadid-Pecht, O., et al., <u>Wide dynamic range APS star tracker</u> , Proc. SPIE Vol. 2654, March 1996, pps. 82-92.	
	CW	*Zamowski, J., et al., <u>Imaging options expand with CMOS technology</u> , Laser Focus World, June 1997, pps. 125-130.	
	CX	*Zhou, Z., et al., <u>A Cmos Imager with On-Chip Variable Resolution for Light-Adaptive Imaging</u> , 1998 IEEE International Solid-State Circuits Conference, pps. 174-175.	
TN	CY	*Zhou, Z., et al., <u>A Digital CMOS Active Pixel Image Sensor For Multimedia Applications</u> , Proc. SPIE Vol. 2894, September 1996, pps. 282-288.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*Applicant's unique citation designation number (optional). \*Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	T. NGUYEN	Date Considered	3/11/05
-----------------------	-----------	--------------------	---------